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THE LENOVO® THINKSERVER® TS430

A HIGHLY AFFORDABLE, FEATURE-RICH SERVER

INCREDIBLE PERFORMANCE WITH LATEST INTEL® XEON E3-1200 V2 TECHNOLOGY -- UP TO 30% FASTER VS. PREVIOUS GENERATION

HIGHLY RELIABLE WITH POWERFUL SAS RAID AND REDUNDANT POWER SUPPLY CHOICES

OUTSTANDING MANAGEABILITY WITH THE THINKSERVER MANAGEMENT MODULE WITH OPTIONAL IKVM.

ENORMOUS ROOM TO GROW WITH UP TO 24TB (SATA) OR 7.2TB (SAS) STORAGE CAPACITY WITH UP TO 8 HOT SWAP DRIVES

ENTERPRISE-TOUGH DESIGN, WHISPER-QUIET AND ENERGY EFFICIENT PERFORMANCE THAT'S IDEAL FOR DEMANDING RETAIL OR FRONT OFFICE DEPLOYMENTS

OUTSTANDING MANAGEABILITY AND SCALABILITY TO PROVIDE UNBEATABLE VALUE FOR BUSINESSES LARGE OR SMALL

IMPROVED FEATURES OF TS430

- Faster performance with latest Intel Xeon E3-1200 v2 processors
- Greater scalability with new 3TB SATA and 900GB SAS choices
- Improved RAID protection with new ThinkServer RAID 700 adapter and battery backup
- Greater I/O choices with new quad port ethernet adapter
- New, retail-ready component choices like parallel ports, high speed USB 3.0 and serial ports
- Expanded operating system support with Microsoft Multipoint Server
- Expanded availability to dozens of new countries

The ThinkServer TS430 combines latest Intel® Xeon performance, legendary Think quality and powerful manageability tools to deliver a feature-rich, scalable and highly reliable server solution for Managed Solution Providers (MSPs), branch offices and small businesses.

Combining sophisticated SAS RAID, up to 8 hot swap drives and redundant power choices, the TS430 offers small businesses a scalable tower solution with plenty of room to grow. Its powerful IPMI 2.0-compliant ThinkServer Management Module with available iKVM allows MSPs to remotely and cost effectively manage end user environments.

An expansive options and services portfolio make it easy to customize the perfect TS430 for your needs. Choose from an extensive array of hard drive choices, memory, RDX solutions and RAID protection – all ThinkServer-tested and proven. TS430 offers feature-rich performance in an Energy Star-certified, whisper-quiet compact tower chassis -- perfect for retail or back office applications.

intel inside™ Xeon®

AN INCREDIBLE, SOPHISTICATED PERFORMER

The ThinkServer TS430 combines the performance you demand with highly affordable choices and plentiful channel inventory.

- **Up to 30% faster** performance than the previous generation of Intel Xeon processors. With Turbo Boost 2.0, you get extra processing speed when applications demand it.
- **Save on power consumption** with the new Intel® Xeon® E3-1200 v2 series processors, without compromising on performance.
- **Lightning-fast data speeds** for outstanding performance choose the ThinkServer RAID 700 adapter with battery backup. Its 0/1/5/10/50/6/60 RAID capabilities deliver vault-safe protection for your peace of mind.
- **A complete solution** portfolio of ThinkServer tested and proven options and storage choices from trusted partners like TrippLite, Tandberg and many more. And, with plentiful channel inventory each week you'll enjoy quick delivery and outstanding prices.

INDUSTRY-LEADING GREEN ATTRIBUTES

The ThinkServer TS430 combines enterprise-grade stability and performance with extensive green features.

- **Whisper-quiet noise levels,** making it easy to deploy the TS430 without a dedicated server room. Use the TS430 in retail deployments, front office, or back office applications, without disrupting the work environment.
- **Extensive energy efficiency certifications and ratings,** with RoHS and Climate Savers certifications, along with Energy Star 1.0 for servers.
- **Substantial recycled materials used in design,** with a significant percentage from post-consumer recycled content.

AN INTELLIGENT, RELIABLE SOLUTION

The ThinkServer TS430 is built to meet your demanding 24x7 application needs, with energy efficient performance and unmatched value.

- **Redundant, high efficiency Power Supplies** let you work without having to worry about system failures because of power loss.
- **Stable, powerful performance** with up to 8 hot-swap SAS or SATA Hard Drives, durable ECC memory, and blazing fast SAS RAID performance and protection supporting 0/1/5/10/50/6/60 configurations. For unbeatable protection, choose the ThinkServer RAID 700 adapter with optional battery backup.
- **Extraordinary remote manageability** features the ThinkServer Management Module that's IPMI 2.0-compliant and loaded with manageability tools to remotely manage your TS430.

CUSTOMER SCENARIOS

The Server Solution for Managed Service Providers (MSPs)

The ThinkServer TS430 delivers world-class Think quality and outstanding reliability, allowing MSPs to extend their service offerings effortlessly to servers.

Out-of-band management has never been easier or more effective with the ThinkServer Management module – a powerful BMC solution that's IPMI 2.0-compliant and loaded with remote manageability features.

The TS430 offers huge capacity and blazing-fast SAS RAID and data protection – perfect for MSPs entrusted with their customer's data and network management.

The TS430 is designed for 24x7 operation and unwavering reliability. The enterprise-tough chassis offers SAS or SATA hot swap drives, and durable ECC memory, for outstanding data integrity and peace of mind.

The Server Solution for Small and Medium Businesses

Small businesses need the server-class capabilities that large enterprises enjoy, but without the high costs of acquisition and exorbitant operational costs.

The ThinkServer TS430 offers server-class hardware designed specifically for 24x7 operation and rich manageability yet remains highly affordable.. Remote IT management has been made easier as well, with the ability to remotely control, power on/off, and monitor the server.

Energy Star compliance on the TS430 saves you up to 30% in energy costs, compared to previous generation servers. With its whisper-quiet operation, the TS430 is an ideal fit for retail or front office deployments – without need for a dedicated server room!

The Server Solution for Corporate Branch Offices

For corporate branch offices with limited IT staff, the ThinkServer TS430 helps make work simpler. Easy Startup allows for rapid deployment, while ability to self-monitor health with automated issue alerts streamlines work of the central IT department. With remote monitoring and troubleshooting capabilities, the TS430 keeps branch office functioning at peak levels.

Customize your TS430 with enormous SAS or SATA storage and powerful SAS RAID solutions when you demand critical data protection. Combining Xeon performance with highly affordable prices, the TS430 is a powerful, dependable, economical solution – the perfect fit for your business.

The Server Solution for Retail and Point-of-Sale Deployments

Your retail transactions are paramount to your business -- every transaction matters. Uptime isn't negotiable and transaction processing must be rapid, reliable and predictable. And, you need all these features in a solution that won't break your budget. Consider theThinkServer TS430 -- it's ideal for demanding retail and point-of-sale deployments. The TS430 offers an impressive suite of I/O choices like modem ports, high speed USB 3.0 and parallel ports. And, for exceptional ethernet expansion, consider the quad port ethernet adapter. Built on reliable Intel technology, it features the bandwidth you demand at prices friendly on your budget. Yet, TS430 is more than simply rich I/O. It delivers dynamite performance with the latest generation Intel Xeon E3-1200 v2 processors, and offers huge SAS/SATA capacity. And, to safeguard your data, the TS430 offers the powerful ThinkServer RAID 700 adapter with optional battery backup. Combining all these choices in a platform starting at $699, and TS430 represents a compelling choice for retail deployments.

SERVICES AND WARRANTY UPGRADES

Microsoft Software Options choices

Complete your ThinkServer solution with tested, proven server OS solutions from Microsoft.

Software Options - ROK Kits	P/N
Microsoft Windows Server 2008 R2 SP1 Enterprise Edition. Includes 25 CALs Multi language Eng/Fr/Ger/Ita/Spa	84978PF
Microsoft Windows Server 2008 R2 SP1 Standard Edition. Includes 5 CALs Multi language Eng/Fr/Ger/Ita/Spa	849780F
Microsoft Windows Server 2008 R2 SP1 Foundations Edition. Includes 15 CALs Multi language Eng/Fr/Ger/Ita/Spa.	84978HF
Microsoft Windows Server 2008 CAL 1 user CAL AG Bundle	849781A
Microsoft Windows Server 2008 CAL 5 user CAL AG Bundle	849785A
Microsoft Windows Server 2008 CAL 1 user CAL EMEA Bundle	849781G
Microsoft Windows Server 2008 CAL 5 user CAL EMEA Bundle	849785G

Software Options - ROK Kits	P/N
Microsoft Windows Small Business Server 2011	
Microsoft Windows Small Business Server 2011 Essentials Edition. Includes 25 CALs English	84971EE
Microsoft Windows Small Business Server 2011 Essentials Edition. Includes 25 CALs French	84971EF
Microsoft Windows Small Business Server 2011 Standard Edition Includes 5 CALs English	84971SE
Microsoft Windows Small Business Server 2011 Standard Edition Includes 5 CALs French	84971SF
Microsoft Windows Small Business Server Premium Add On 2011 Edition Includes 5 CALs English	84971PE
Microsoft Windows Small Business Server Premium Add On 2011 Edition Includes 5 CALs French	84971PF
Microsoft Windows Small Business Server Standard 2011 CAL, 5 User AG Bundle	849711G
Microsoft Windows Small Business Server Standard 2011 CAL, 5 User EMEA Bundle	849711J
Microsoft Windows Small Business Server Premium Add-On 2011 CAL, 5 user - AG Bundle	849711K
Microsoft Windows Small Business Server Premium Add-On 2011 CAL, 5 user EMEA Bundle	849711M

ThinkServer Services and Warranty Upgrades

Lenovo Services let you get the most out of your ThinkServer – no matter how you use it. Whether you have a thousand client seats or just one, Lenovo delivers the quality, reliability and peace of mind to get you and keep you up and running, no matter where you are, no matter when you need.

Training classes

› The basics on components, diagnostics, troubleshooting, and managing Lenovo servers, delivered in interactive online format

Online Training, Understanding Lenovo Servers	45K4080
Online Training, Understanding Systems Management	45K4081
Installation, ThinkServer Hardware Only	45K4082

ThinkPlus service upgrade options

› LOR = Lenovo Onsite Repair

TS430 with 1-year warranty

3-year LOR 9x5 Next Business Day	45K4055
4-year LOR 9x5 Next Business Day	51J0723
5-year LOR 9x5 Next Business Day	51J0725

TS430 with 3-year warranty

4-year LOR 9x5 Next Business Day	51J0727
5-year LOR 9x5 Next Business Day	51J0729

ThinkPlus Priority Support

› 9x5 Next Business Day response Lenovo Onsite Repair

› 24x7 support with priority routing and advanced level technicians

TS430 with 3-year warranty

3-year Priority Support	45K4060

ThinkPlus Priority Support with Hard Disk Drive Retention

› 9x5 Next Business Day response Lenovo Onsite Repair

› 24x7 support with priority routing and advanced level technicians

› Hard Disk Drive Retention (HDDR) means customer keeps disk

TS430 with 3-year warranty

3-year Priority Support with HDDR	45K5443

ThinkPlus Productivity

› Priority Support

› Online Training, Understanding Lenovo Servers

› One-time hardware installation

3-year ThinkPlus Productivity, TS430 (3-year)	45K4086

Optional 4-hour service response available via special bid in select regions. Contact your Lenovo sales representative for details.

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OPTIONS AND ACCESSORIES

ThinkServer DDR3-1333 MHz Memory

High performance ThinkServer ECC memory takes full advantage of Intel's technology while delivering true server-class 99.94% reliability.

P/N	
67Y2606	ThinkServer 2GB DDR3-1333MHz (1RX8 ECC UDIMM)
67Y2607	ThinkServer 4GB DDR3-1333MHz (2RX8 ECC UDIMM)
0A89461	ThinkServer 8GB DDR3-1333MHz (2RX8 ECC UDIMM)

ThinkServer Tower-to-Rack Shelf Conversion Kit (67Y2641)

- Convert your ThinkServer TS430 to a rack mounted unit
- Durable, thoughtful design make servicing easy
- Includes cable arm, for efficient, trouble-free cable management

ThinkServer Managment Module Premium (67Y2624)

- Embedded Web Server
- Soft Keyboard via KVM
- Email Alert
- Remote KVM
- Virtual Media Redirection
- Dedicated Network Interface Card
- Security: SSL, SSH, KVM Encryption, authentication using LDAP or RADIUS

ThinkServer RAID 100 Upgrade Key for Advanced RAID

The RAID 100 Upgrade Key provides an option to upgrade the TS430 server from basic onboard board RAID to advanced software RAID 5 for increased data reliability

SATA Hard Drive Choices

Combining robust performance with rock solid engineering, ThinkServer Enterprise SATA Hot Swap Hard Drives are ideal for storage, backups and archival applications

ThinkServer 7.2K 3.5" Enterprise 6Gb SATA Hot Swap Hard Drives
500GB: 0A89473, 1TB: 0A89474, 2TB: 0A89475, 3TB: 0A89477

ThinkServer 7.2K 3.5" Enterprise SATA Hard Drives
500GB: 0A89470, 1TB: 0A89471, 2TB: 0A89472, 3TB: 0A89478

SAS Hard Drive Choices

ThinkServer Enterprise SAS hot swap drives are designed to deliver outstanding performance and superior data protection.

- 3.5" 300GB 15K: 67Y2616
- 3.5" 450GB 15K: 67Y2617
- 3.5" 600GB 15K: 67Y2618
- 2.5" 300GB 10K: 67Y2619
- 2.5" 450GB 10K: 67Y2620
- 2.5" 600GB 10K: 67Y2621
- 2.5" 900GB 10K: 0A89406

ThinkServer 450W Hot Swap Redundant Power Supply (67Y2625)

- Enjoy peace of mind and high availability in the event of a single power supply failure
- Powerful yet energy efficient performance
- Simple, easy installation and service

ThinkServer RAID 500 Upgrade Key for Advanced RAID (0A89407)

- Low cost, green SATA/SAS RAID solution
- RAID levels 5
- 6Gb/s per port data transfer rates provides blazing-fast performance

ThinkServer RAID 500 Adapter II - 0A89464

ThinkServer RAID 500 offers small to medium sized businesses the latest RAID technology at affordable prices with low power consumption.

- Low cost, green SATA/SAS RAID solution
- RAID levels 0, 1, 10
- 6GB/s per port data transfer rates provide blazing fast performance
- Selectable logical drive as boot drive
- Automatic rebuild of hot spare drives
- Auto resume during array build
- Online Capacity Expansion
- Online RAID Level Migration
- SafeStore Encryption Services
- SMART support

ThinkServer RAID 700 Adapter II - 0A89463

The ThinkServer RAID 700 solution provides a new level of reliability, availability, and performance to businesses that are facing storage challenges driven by unprecedented data growth.

- Eight internal 6Gb/s SATA+SAS ports
- Support for 3Gb/s and 6Gb/s SATA and SAS hard drives
- Two Mini-SAS internal connectors (SFF-8087)
- 512MB 800MHz DDRII cache memory
- Optional battery backup module (PN: 67Y2647)
- RAID Levels 0, 1, 5 and 6
- RAID Spans 10, 50 and 60

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SPECIFICATIONS

OPERATING SYSTEM SUPPORT

Windows Server 2003 -- x86 Edition (Standard / Enterprise)
Windows Server 2008 -- x86 Edition (Standard / Enterprise / Datacenter)
Windows Server 2008 -- x64 Edition (Standard / Enterprise / Datacenter)
Windows Server 2008 R2 -- x64 Edition (Standard / Enterprise / Datacenter)
Windows Server 2008 R2 SP1 -- x64 Edition (Standard / Enterprise / Datacenter)
Windows Small Business Server 2011(Standard / Premium Add On)
Novel SUSE Linux Enterprise Server (11.1 / 11.2)4
RedHat Enterprise Linux Server (5.7 / 6.1)
VMWare vSphere 5

PROCESSOR

Intel® Xeon® E3-1220 V2 8MB 4c 3.1GHZ 69W
Intel® Xeon® E3-1230 V2 8MB 4c 3.3GHZ 69W
Intel® Xeon® E3-1240 V2 8MB 4c 3.4GHZ 69W
Intel® Xeon® E3-1270 V2 8MB 4c 3.5GHZ 69W
Intel® Xeon® E3-1280 V2 8MB 4c 3.6GHZ 69W
Intel® Xeon® E3-1290 V2 8MB 4c 3.7GHZ 69W
Intel® Pentium G850 (2.9GHz / 2C / 3M / 65w /1GT/1333)
Intel® Pentium G840 (2.8GHz / 2C / 3M / 65w /1GT/1333)
Intel® Pentium G620 (2.6GHz / 2C / 3M / 65w /1GT/1066)
Intel® Pentium G860 (3.0GHz / 2C / 3M / 65w /1GT/1333)
Intel® Pentium G630 (2.7GHz / 2C / 3M / 65w /1GT/1066)
Intel® Celeron G540 (2.5GHz / 2C / 2M / 65w /1GT/1066)
Intel® Celeron G530 (2.4GHz / 2C / 2M / 65w /1GT/1066)

PACKAGING

5U / 50L Tower

MEMORY

4 DIMM sockets – up to 32GB
(Supports UDIMMs DDR3 1333 MR/s ECC)

WEIGHT

25kg (maximum)

DIMENSIONS

195mm x 430mm x 595mm
(7.67" x 16.92" x 23.42")

STORAGE

4x 3.5" HDD Bays
(up to 12TB internal SATA storage)
4x or 8x 3.5" HS HDD Bays (up to 24TB internal SATA or 4.8TB internal SAS storage)
8x 2.5" HS HDD Bays (up to 7.2TB internal SAS storage)

STORAGE CONTROLLER

a) Onboard RAID
b) RAID 5 upgrade key for onboard RAID
c) RAID 500 card
d) RAID 5 upgrade key for RAID 500 card
e) RAID 700 card
f) Battery upgrade for RAID 700 card

I/O EXPANSION SLOTS

One PCIe x8 Gen2 HH/FL (x16 mech)
One PCIe x8 Gen2 HH/HL (x8 mech)
One PCIe x4 Gen2 HH/HL (x8 mech)
One 5V 32-bit/33 MHz PCI
Optional Parallel port via PCI card
Optional Modem via PCI card
Optional USB 3.0 port PCI card

I/O CONNECTORS

Two 1 Gb/s Ethernet ports
(one shared with IMM)
USB 2.0 ports – 4 rear, 2 front, 1 internal (2x5 pin header for optional RDX tape)
Serial port (one rear) Video (one rear)
Optional Intel® 1Gbps Ethernet I340 Quad Port Server Adapter

MANAGEABILITY/RAS/SERVICE

IMM on shared Ethernet port
Optional remote management / KVM with the ThinkServer Management Module Premium
IPMI 2.0 / SOL, TPM (Supports TCG 1.2)
Diagnostic LED's on Motherboard, uEFI BIOS

MEDIA

Two 5.25" External bays
Optional RDX tape backup

POWER

Fixed Power Supply – 405W (85% efficiency)
Optional Redundant Power supply – 450W
Energy Star Server 1.0 compliant

PRICE

prices starting at $699US and available on www.lenovo.com or through your authorized Lenovo business partner

WWW.LENOVO.COM

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